



# Iowa DOT Partnering with Local Agencies

DONNA BUCHWALD

VANESSA GOETZ

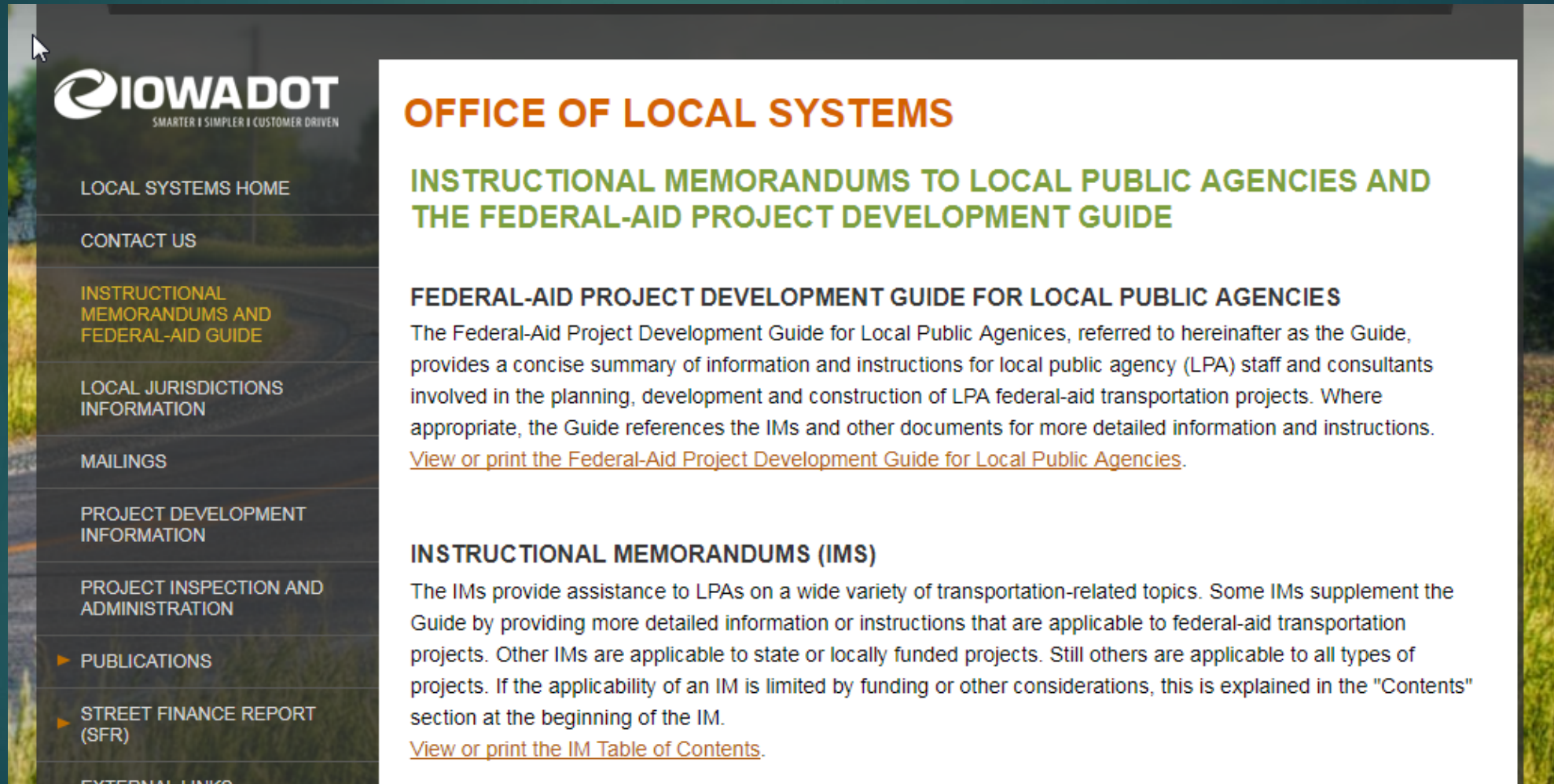


# Communication with Local Public Agencies

DONNA BUCHWALD, P.E.

DIRECTOR – OFFICE OF LOCAL SYSTEMS

I.M.'s ([www.iowadot.gov/local\\_systems/publications/im/lpa\\_ims.htm](http://www.iowadot.gov/local_systems/publications/im/lpa_ims.htm))



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PROJECT DEVELOPMENT INFORMATION

PROJECT INSPECTION AND ADMINISTRATION

► PUBLICATIONS

► STREET FINANCE REPORT (SFR)

EXTERNAL LINKS

## OFFICE OF LOCAL SYSTEMS

### INSTRUCTIONAL MEMORANDUMS TO LOCAL PUBLIC AGENCIES AND THE FEDERAL-AID PROJECT DEVELOPMENT GUIDE

#### FEDERAL-AID PROJECT DEVELOPMENT GUIDE FOR LOCAL PUBLIC AGENCIES

The Federal-Aid Project Development Guide for Local Public Agencies, referred to hereinafter as the Guide, provides a concise summary of information and instructions for local public agency (LPA) staff and consultants involved in the planning, development and construction of LPA federal-aid transportation projects. Where appropriate, the Guide references the IMs and other documents for more detailed information and instructions.

[View or print the Federal-Aid Project Development Guide for Local Public Agencies.](#)

#### INSTRUCTIONAL MEMORANDUMS (IMS)

The IMs provide assistance to LPAs on a wide variety of transportation-related topics. Some IMs supplement the Guide by providing more detailed information or instructions that are applicable to federal-aid transportation projects. Other IMs are applicable to state or locally funded projects. Still others are applicable to all types of projects. If the applicability of an IM is limited by funding or other considerations, this is explained in the "Contents" section at the beginning of the IM.

[View or print the IM Table of Contents.](#)

# I.M.'s

## Instructional Memorandums to Local Public Agencies Table of Contents



Some I.M.s are written either to counties or cities; others are written to both counties and cities. The intended audience is indicated in the "To:" field of the I.M. as well as the Table of Contents below. Many of the I.M.s are referenced by the Federal-aid Project Development Guide (Guide). These I.M.s are marked with an asterisk (\*). For more information about the relationship between the Guide and I.M.s, refer to the [Guide and I.M.s web page](#).

**Note:** The I.M.s are currently in the process of being transitioned into a new format and numbering system. New or updated I.M.s will use the new format. Existing I.M.s will remain in the old format until they are revised or updated. Some of the I.M.s are not yet complete, as shown in light grey text. Some incomplete I.M.s will be based on an existing Project Development Information Packet document, some will be based on an existing County Engineers I.M. that will be renumbered, and some will include entirely new content. Where applicable, a reference and link to the existing Packet document or County Engineers I.M. is provided. Some of the links to the [Code of Federal Regulations](#) (CFR) and the [United States Code](#) (USC) have been removed from the individual I.M.s below. To get to the general CFR and USC, you can click on the links and search each respective page.

No.	Subject	Revision Date	Written To
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### Chapter 1 – General Information

#### Section 1.0 -- General

<a href="#">1.020</a>	Pavement Friction Evaluation Program	January 11, 2017	Both
<a href="#">1.070*</a>	Title VI and Nondiscrimination Requirements	July 20, 2012	Both
<a href="#">1.080*</a>	ADA Requirements	October 1, 2013	Both
	<a href="#">Attachment A</a> – Sample Curb Ramp Transition Plan ( <a href="#">Word</a> )	August 24, 2012	Both

#### Section 1.1 -- References

<a href="#">1.120</a>	References to the Iowa Code	August 2003	Counties
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### Chapter 2 – Administration

#### Section 2.0 -- Finance

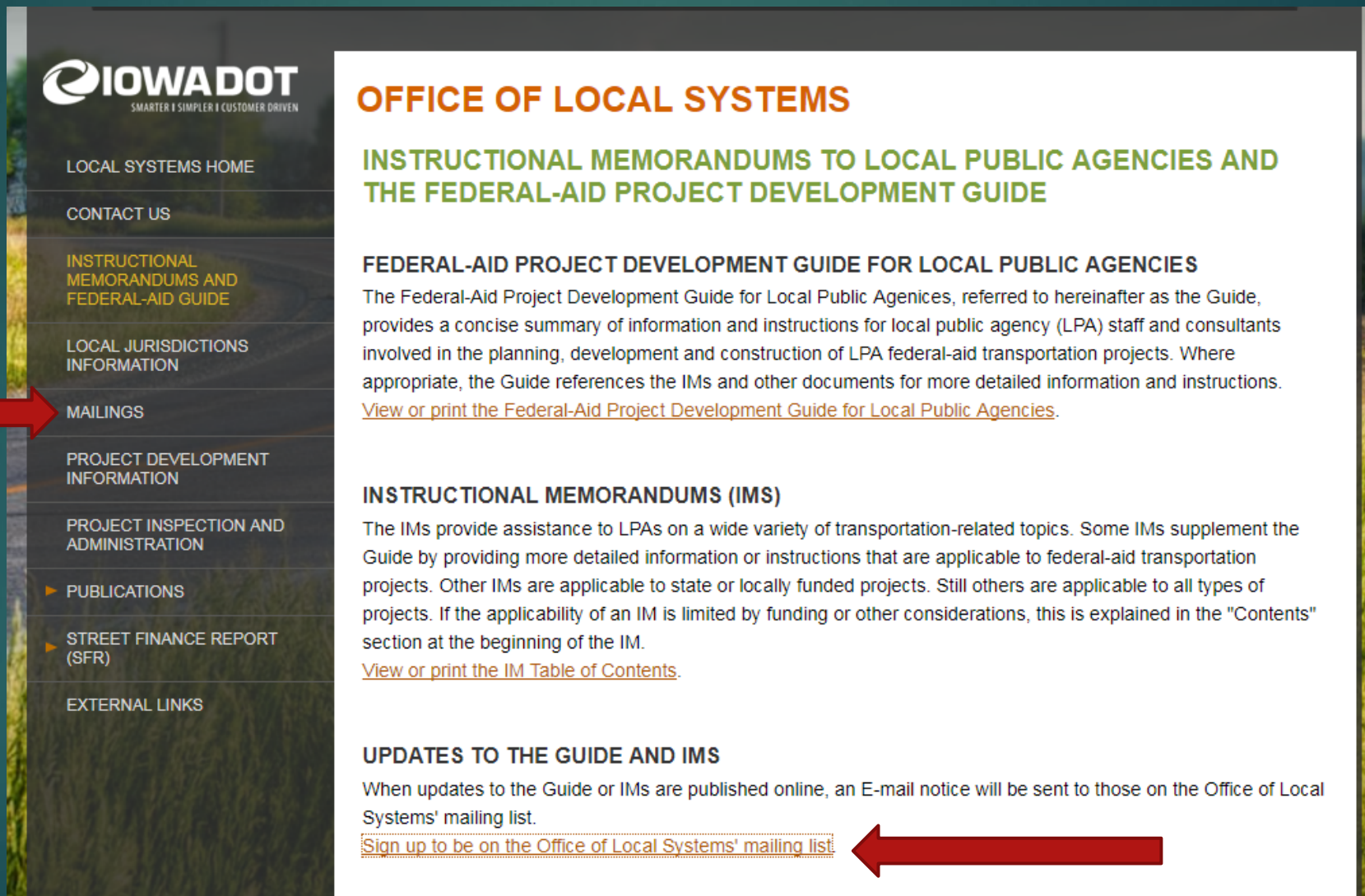
<a href="#">2.005</a>	Farm-to-Market Program	December 19, 2014	Counties
<a href="#">2.010</a>	Transfer of Local Secondary Road Use Tax Funds to the Farm-to-Market Fund	May 2, 2016	Counties
	<a href="#">Attachment A</a> - Local to FM Fund Transfer Resolution ( <a href="#">Word</a> )	May 2, 2016	Counties

# I.M.'s

- ▶ 3.670\* Work on Railroad Right-of-Way
  - ▶ Attachment A –Work in Railroad Right-of-Way Flowchart May 7, 2015 Both
- ▶ 3.680\* Federal-aid Projects Involving Railroads May 2, 2016 Both
  - ▶ Attachment A – FHWA Authorization of Railroad Costs Flowchart May 7, 2015 Both



# Mailings



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[View or print the IM Table of Contents.](#)

#### UPDATES TO THE GUIDE AND IMs

When updates to the Guide or IMs are published online, an E-mail notice will be sent to those on the Office of Local Systems' mailing list.

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  - ☐ Local Systems-General - City and Counties (i.e. I.M.s, Rule Changes) ⓘ
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# Meetings and Presentations

- ▶ APWA Exec Board
- ▶ APWA Conferences
- ▶ ICEA Exec Board
- ▶ ICEA Conferences



# Iowa County Engineers Service Bureau

ICEA Service Bureau

Secure | https://www.iceasb.org

Apps | Conference Details - | Symantec Enterprise | Cap One | Concord | IowaDOTU | GovDelivery Admin » | Beacon - Story Count

ICEA Service Bureau

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Headlines

**Sample Local Road Safety Plan** 9/6/2017

If you've been curious as to what an LRSP is all about, Wapello County has shared their Local Road Safety Plan as an example plan, so other counties can see what the plans entail. If you haven't already signed up to receive your own plan, and decide you would like one, please email [Chris Poole at the DOT](#) | [Download Wapello County LRSP](#)

Map showing participants and progress in the LRSP program: [View PDF plot](#)

**2017 APWA Operator Training & Roadeo** 9/6/2017

The Iowa Chapter of APWA invites interested snow plow drivers to participate in their annual training event. [More info.](#)

**2018 Committee assignments** 9/6/2017

Solicitation of candidates to fill upcoming (2018) vacancies in in ICEA Committees will commence on September 13. Listings of district by district opportunities will be sent out to all counties on that date. If an engineer, or - in some cases - a staff member is interested in filling an opening, please communicate that to your district ICEA Exec Board rep. The 2018 committee assignments will be made at the Exec Board meeting to be held on October 13.

**Service Bureau Fall training schedule** 9/6/2017

The ICEA Service Bureau will offer seven training sessions around the state in October and early November as follows: Oct 6 at ISAC, Wdm; Oct 19-Fairfield, Oct 20-Cedar Rapids; Oct 25-Fontana Park, Oct 26-Mason City; Nov 2-Atlantic, Nov 3-Cherokee. This year's agenda will cover a number of current topics and upcoming projects, plus an SRRE report. [Agenda, locations, and how to register](#) For assistance with registration, call Jenn at 515-369-7029

**ICEA website news** 9/5/2017

There have been several updates to the ICEA SB website recently:

**Local Road Safety Workshop registration is now open.** 8/28/2017

These workshops are FREE and provide the most current information and advice for improving safety on local agencies' roads and streets in terms of engineering, law enforcement, education, and planning. Locations: Cedar Rapids (10/11), Ottumwa (10/12), Charles City (10/18), Ames (10/19), Storm Lake (10/24), Atlantic (10/26). [Information and registration](#)

**ASCE Land Surveying conference** 8/21/2017

ASCE will host a Land Surveying conference at the Scheman Bldg in Ames on Oct 18. [Agenda and registration](#)

**2017 Excavation Safety Workshops** 8/8/2017

Registration is now open for the 2017 Excavation Safety Workshops hosted by Iowa LTAP. These workshops explain the hazards of excavation and trenching and also provides assurance that all relevant duties of a competent person at an excavation site will be fully covered. [Registration Link](#) Dates and locations: Storm Lake - Monday, October 23, Tripoli - Tuesday, October 24, Sigourney - Wednesday, October 25, Atlantic - Thursday, October 26.

**2017 Iowa Streets and Roads Workshop and Annual Conference** 7/28/2017

The 2017 Iowa Streets and Roads Workshop and Annual Conference will be on September 19 (workshop) and 20-21 (conference) in Ames. Click [HERE](#) for more information and the registration link. Also contact Beth Richards (brich@iastate.edu or 515-294-2869) if you have a Tom McDonald Safety Award nomination or a mousetrap/gadget nomination.

**FY 2018 RUTF Distribution Factors** 7/24/2017

Articles | Featured | Columns 2 | 1-10 of 12 | Page 1 | Per page 10

# Iowa TPMS

ICEA Service Bureau x TPMS Development - Sta x

Secure | https://www.tpms.org/TPDEV3/status/

Apps ICEA Service Bureau Local Systems - Iowa TPMS TPDev Outlook 365 mobile Imported From IE Iowa DOT WebSaver Email Enterprise Vault Annual Report

**TPMS Development :: Status :: TPMS #14571** **Screen D2.2** [Back to Project](#)

Sponsor [Request Update](#) Details Design [Request Update](#) Letting

Lucas CRD  
Todde Folkerts  
County Engineer  
641-774-4013

**BROS-C059(40)--8J-59** FHWA #227880 [SR = 32] [QBL](#)

130th Trail: Over Otter Creek  
Bridge Replacement-CCS  
AADT = 25 VPD / Eng. Est = \$450,000.00

Lucas CRD  
Todde Folkerts  
Chariton IA 50049  
Ph. 641-774-4013

DOT - 19-Sep-2017  
Major Project Schedule  
DIST-5 Christy Van Buskirk  
Ph. 641-472-4171

[Status](#) [Setup](#) [Log](#) [Contacts](#) [\[Email\]](#) [\[Files\]](#)

**Programming Consistency** [All Programming](#)

STIP Funding: Desc.: Timing: [view](#)

CFYP Funding: Desc.: Timing: [view](#)

For more information about warnings or errors, hover your cursor over the item in question.

Development Progress	State	Date Posted	Action	By	Form	Items
Concept Statement	Cleared	01/20/2015		JAb		
Preliminary Plans	Cleared	01/20/2015		JAb		
Check Plans	Cleared	10/28/2015		JAb		
Final Plans	Cleared	06/26/2017		JAb		
Proj. Dev. Cert.	Cleared	06/26/2017		JAb		
Plan Turn-In	TI Std	06/26/2017		JAb		

NOT Davis Bacon / NPDES / Field Manager = No

Clearances	State	Date Posted	Action	By	Update Protocol	Items
• Agreements						
Project Agreement	Cleared	06/13/2016		CV	TPMS --> PSS	
• Environmental / Cultural						
NEPA	Cleared	06/01/2015		PSS	TPMS <-- PSS	
SHPO	Cleared	03/31/2015		PSS	TPMS <-- PSS	



# Research and LPA's

VANESSA GOETZ – IOWA DOT RESEARCH



1950-2017

- ▶ Iowa Legislature set aside funding in 1949 for Secondary Road Research – 1.5% of County RUTF
- ▶ First meeting - May 18, 1950
- ▶ Initially county and state funding
  - ▶ City RUTF added in 1989
- ▶ Iowa DOT Commission allocates funds annually
- ▶ Since 2015 serves as the Statewide Transportation Innovation Council (FHWA)

# IHRB Goals

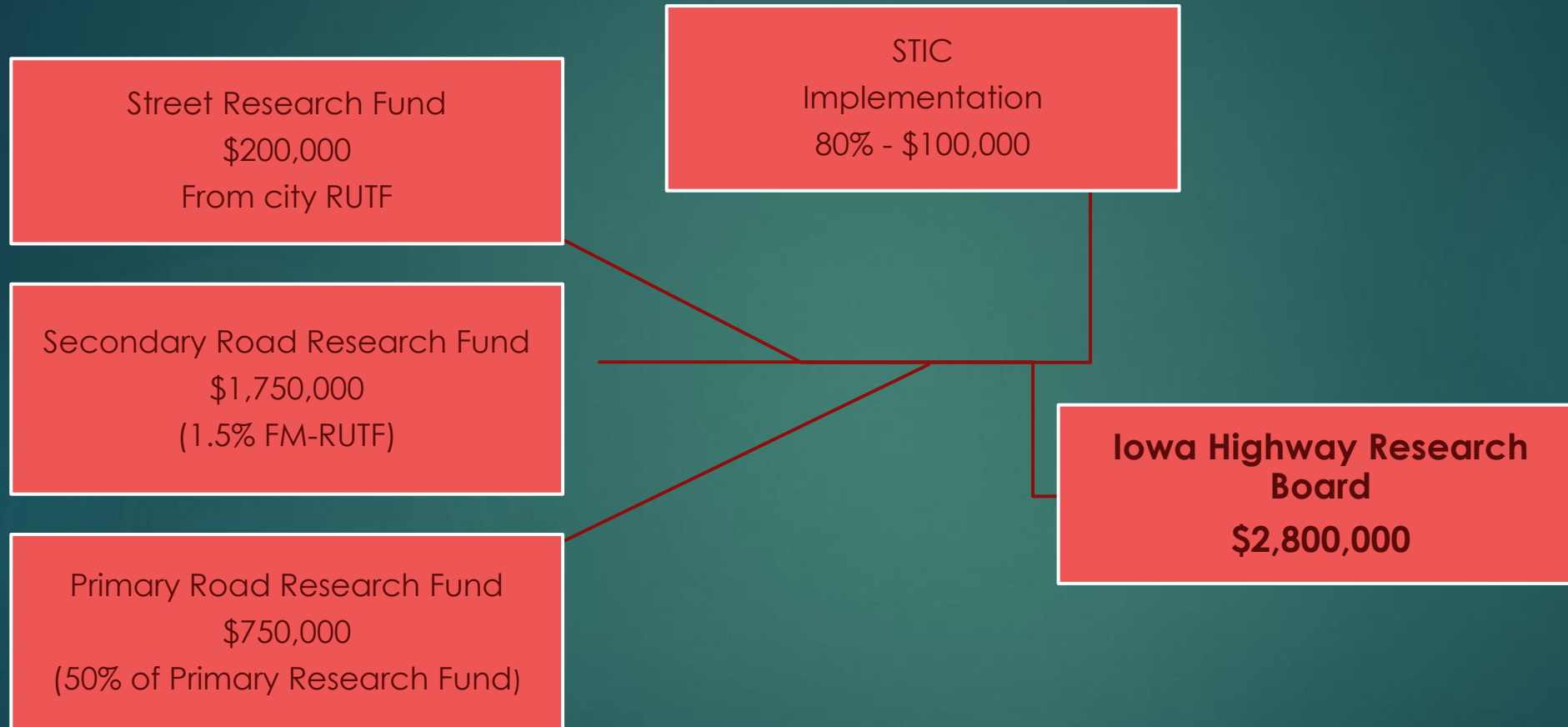
- ▶ Improve the efficiency and effectiveness of highway transportation and engineering in Iowa
- ▶ Identify needed research and engineering development activity
- ▶ Encourage collaborative involvement
- ▶ Support research implementation
- ▶ Serve at the STIC for IA



# IHRB Organization

- ▶ 15 Members / Alternates
  - ▶ 7 County Engineers (Six Districts + TRB Rep.)
  - ▶ 2 City Engineers
  - ▶ 2 University Civil Engineering Department Chairs (U of I, ISU)
  - ▶ 4 Iowa DOT Engineers
- ▶ 3 year terms

# IHRB Funding



# Statewide Transportation Innovation Council (STIC)

- ▶ IHRB serves as the STIC for Iowa
- ▶ \$100,000 Federal grant annually for implementation per FFY.
  - ▶ Implementation of 3D Modeling in Bridge Design
  - ▶ Implementation of Design for Column/Footing/Pile System for Accelerated Bridge Construction (ABC)
  - ▶ Training for Implementation of Self-Cleaning Box Culvert solutions
  - ▶ Implementation of E-Construction at Iowa DOT
  - ▶ Pilot project for Open Data Services for Smart Work Zone Implementation
  - ▶ Support for Innovations in Transportation Conference
  - ▶ In Situ Modulus Measurement Using Automated Plate Load Testing for Statewide Mechanistic-Empirical Design Calibration

# FHWA AID Grant

- ▶ \$1M Available to apply per FFY for State Projects and \$1M Available for City, County, Tribal or MPO projects.
  - ▶ Iowa DOT Silver Creek Project - Awarded
  - ▶ Iowa DOT Box Beam with UHPC for Short Span Bridges – Pending
  - ▶ Dubuque MPO STREETS Project – Pending
  - ▶ Automatic Plate Load Testing and Intelligent Compaction – To apply in FFY18
  - ▶ Clinton County Road F-12 Cape Seal – To apply in FFY18

# Key to Success is Partnership!

- ▶ Between Highway Agencies
- ▶ Within Industry
- ▶ Between Universities!
- ▶ All Disciplines



# Engaging Locals in Research

- ▶ Secondary Road Research Engineer
  - ▶ Danny Waid, ICEA Service Bureau, 515-239-1419, [danny.waid@iceasb.org](mailto:danny.waid@iceasb.org)
- ▶ County Engineers Research Focus Group
  - ▶ Held annually in February
  - ▶ Forum for exchange of ideas, prioritized research topics for IHRB submittal
- ▶ City Engineers Research Focus Group
  - ▶ First one held in 2017 - Spring APWA Conference
- ▶ IHRB Funds travel for City and County members to attend TRB Annual Meeting
- ▶ Participation in Technical Advisory Committee for Research Projects
- ▶ Meetings and presentations at various regional meetings: PI's, Peers, SRRE
- ▶ Research News section at ICEASB Page
- ▶ New project to develop City Service Bureau

# 2017 New Projects

- ▶ TR-732 : Develop and Improved Selection Methodology for Safety Improvements at public Highway-Railroad Grade Crossings
- ▶ TR-731 : Improving Concrete Patching Practices on Iowa Roadways
- ▶ TR-730 : Advanced Testing and characterization of Iowa Soils and Geomaterials
- ▶ TR-729 : Development of Granular Roads Asset Management system
- ▶ TR-728 : Role of coarse Aggregate Porosity on Chloride Intrusion in HPC Bridge Decks
- ▶ TR-727 : Optimizing Maintenance Equipment Life Cycle for Local Agencies
- ▶ TR-726 : Modernization of Iowa Transportation Program Management System
- ▶ TR-725 : Low-Cost Rural Surface Alternatives Phase IV: Forst Depth Monitoring and Prediction
- ▶ TR-724 : Self-Heating Electrically Conductive Concrete Demonstration Project

# 2017 New Projects

- ▶ TR-723 : Implementation of the Negative Moment Reinforcing Detail Recommendations
- ▶ TR-722 : Increase Service Life at Bridge Ends through Improved Abutment and Approach Slab Details and Water Management Practices
- ▶ TR-721 : Low-cost Rural Surface Alternatives Phase III
- ▶ TR-720 : Development of Bio-Based Polymers for Use in Asphalt - Phase 2
- ▶ TR-719 : Development of Self-Cleaning Box Culvert Design - Phase 3
- ▶ TR-718 : Evaluation of Alternative Abutment Piling for Low Volume Road Bridges
- ▶ TR-717 : Use of Polymer Overlays or Sealers on New Bridges
- ▶ TR-716 : Construction of New Substructure Beneath Existing Bridges
- ▶ TR-715 : Beam End Repair for Pre-Stressed Concrete Beams
- ▶ TR-714 : Guide to Life-Cycle Data and Information Sharing Workflow for Transportation Assets
- ▶ TR-712 : Evaluate, Modify and Adapt the Concrete Works Software for Iowa's Use

# 2018 New LPA Projects

- ▶ Evaluate development and costs to operate an Urban Service Bureau
- ▶ Development of Iowa Secondary Roads Operations Management System
- ▶ Optimal Timing to Perform Crack Sealing in HMA Pavement
- ▶ Use of Unmanned Aerial Vehicles (Drones) in Surveying and Construction Works for Iowa Transportation Infrastructure System
- ▶ Galvanized and Painted Steel Piling
- ▶ Light-emitting diode (LED) lighting
- ▶ Two Way Left Turn Lane (TWLTL) Width and Context Sensitive Design and Regular Lane Width and Safety/Operational Impacts

# Questions?

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